

Utilizing the Full Potential
of

Space

for the Implementation of
the

Europe 2020 Strategy

in the Field of

Education



EUROPE 2020:

smart sustainable **inclusive** growth



5 Headline Targets:

Employment, R&D, Climate Change & Energy, **Education**, Poverty & Social Exclusion.

7 Flagship Initiatives:

Innovation Union, **Youth on the Move**, Digital Agenda, Resource efficient Europe, Industrial policy for the globalisation era, Agenda for new skills and jobs, European platform against poverty and social exclusion.

Europe 2020 Headline Target in Education

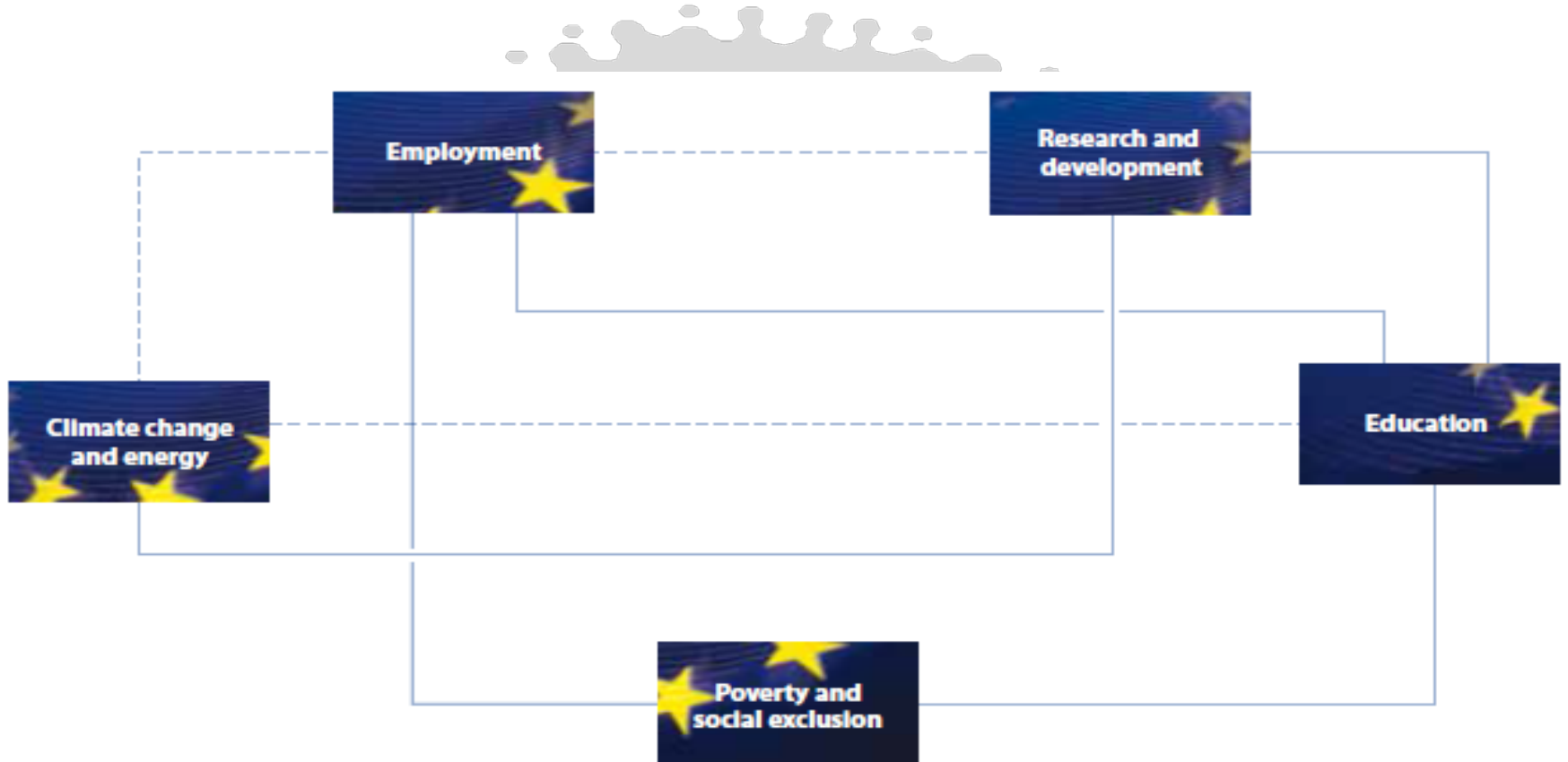
Reducing school drop out rates to less than 10%

&

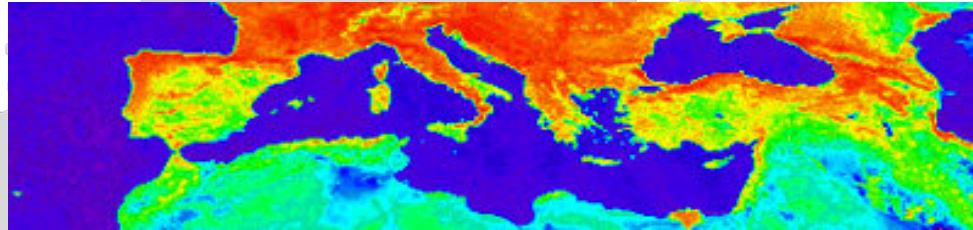
Increasing the share of the population aged 30 to 34 having completed tertiary education to at least 40%



Interlinkages of Europe 2020 Headline Targets



Space Educational Resources and Hands-On Activities



BUT: Lack of awareness by the teachers.

European Space Educational Resource Office (ESERO)

ESERO network
www.esa.int/education/esero



Distance Education

“There are severe constraints on the capacity of the university system to accommodate the many students who aspire to a higher education. In this situation, distance learning institutions are uniquely placed to take care of the educational needs all students who cannot attend a conventional institution”.

– **European Commissioner for Education (2009-2014), Androulla Vassiliou**

Advantages:

- local flexibility
- temporal flexibility
- higher affordability



**The Open
University**

Satellite Communication for Distance Education

“Thanks to the extra coverage provided by satellite broadband, we have achieved our 2013 target of broadband for all. That's a great result for European citizens”.

“For those in the most isolated areas, satellite is a good option to stay connected and it is likely to remain so”.

- Vice President of the European Commission (2010-2014), Neelie Kroes

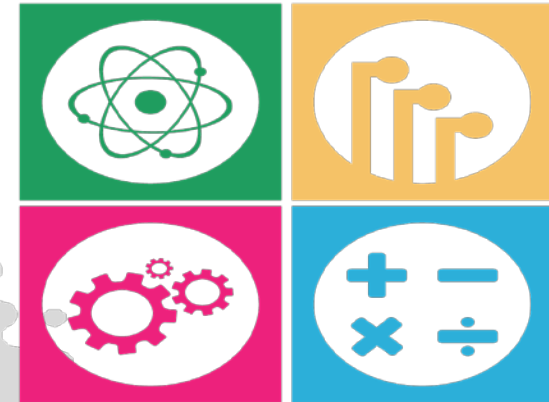
2020 Digital Agenda Target: All Europeans will have access to fast broadband (more than 30 Mbps)



The Importance of STEM Tertiary Educational Attainment for the Implementation of Europe 2020

- contribution to tertiary educational attainment (*Education*)
- human capital for *R & D*
- higher employability and income of graduates (*Employment*) (*Combating Poverty*)

BUT: Scarcity of STEM graduates in the EU.



Motivation for STEM through Space



- 73% of the European citizens believe that inclusion of subjects linked to space activities would encourage more students to choose careers in STEM. *(Source: Eurobarometer)*
- 50% of STEM researchers state that the ‘Apollo missions’ inspired them to become scientists. *(Source: Weekly Journal of Science ‘Nature’)*
- 88,7% of STEM researchers agree that human spaceflight inspires younger generations to study science. *(Source: Weekly Journal of Science ‘Nature’)*

Astronauts as Role Models

